IN THE CLAIMS:

1. (Original) A process for chroming an inner surface of a component, comprising:

providing a mixture of chromium granules and an activator;

heating the mixture to a temperature at which a substantially gaseous coating gas comprising CrCl is formed;

dissipating the coating gas; and

exposing the inner surface of the component to the coating gas, thereby forming a chromium-containing diffusion layer.

- 2. (Original) A process according to claim 1, wherein the mixture comprises approximately 99% by weight of the chromium granules and approximately 1% by weight of the activator.
- 3. (Original) A process according to claim 1, wherein the activator is NH₄Cl or HCl.
- 4. (Original) A process according to claim 1, wherein the heating of the mixture is at a temperature of approximately 1200_C.
- 5. (Original) A process according to claim 1, wherein the dissipating of the coating gas and the exposing of the inner surface of the component occur automatically by the force of gravity.

- 6. (Original) A process according to claim 1, wherein the process is carried out in an inert environment.
- 7. (Original) A process according to claim 1, wherein the component is a hollow turbine blade.
- 8. (Original) A process according to claim 1, wherein the chromium-containing diffusion layer has a thickness of about 25 lm.
- 9. (Original) A process according to claim 1, wherein the chromium-containing diffusion layer has a chromium content in a range from 17% to 20%.
- 10. (Withdrawn) An apparatus for chroming an inner surface of a component, comprising:

a container for accommodating a mixture of chromium granules and an activator, said container having at least one outlet at a bottom of the container; and

a device for holding the component so that the at least one outlet is positioned in a region of the inner surface of the component.

11. (Withdrawn) An apparatus for chroming an inner surface of a component, comprising:

a container for accommodating a mixture of chromium granules and an activator, said container having at least one outlet at a bottom of the container; and

a device for holding a component so that the at least one outlet is positioned in a region of an inner surface of the component,

wherein the container and the device are arranged in a heatable retort for heating the mixture to a temperature at which a coating gas is formed.

- 12. (Withdrawn) An apparatus according to claim 10, wherein the bottom of the container slopes downwards towards the at least one outlet.
- 13. (Withdrawn) An apparatus according to claim 10, wherein the bottom of the container is funnel-shaped and slopes downwards towards the at least one outlet.
- 14. (Withdrawn) An apparatus according to claim 10, wherein a shape of the at least one outlet is matched to a shape of a cavity that includes the inner surface of the component.
- 15. (Withdrawn) An apparatus according to claim 11, wherein the retort has a gas-feed device and a gas-discharge device for creating an inert atmosphere.
- 16. (Withdrawn) An apparatus according to claim 10, further comprising a feedline leading into the container for an activator in powder or gas form.

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17. (Withdrawn) An apparatus according to claim 11, wherein a multiplicity of containers are arranged in the retort.